

Amendments to the Specification

The Examiner has requested an amendment to the Drawing to include illustration of the motion control apparatus of claim 14. Accordingly, please accept the following two replacement paragraphs for the passage at page 4, line 6 through page 5, line 4 which now include the appropriate reference numeral, 340. No new matter is introduced.

Figure 1a depicts an embolectomy device 300 disposed in a body lumen. Device 300 includes catheter 302 and distal device 304. Distal device 304 may be used to unclog the aspiration lumen or to fragment an embolus for aspiration. Catheter 302 may have a manifold 306 attached proximally including a first port 308 and a second port 310. Distal device 304 has a proximal end 312 attached to an elongate member 314 disposed in a lumen of catheter 302. Distal device 304 may have an arcuate shape, or may be formed into a loop, coil, paddle, whisk, zigzag, helical or other shape suitable for fragmenting an embolus. The proximal end of elongate member 314 may be free or may be attached to a motion control apparatus 340 able to impart motion along the axis of elongate member 314. The motion control apparatus 340 may impart longitudinal or radial motion or vibration to the distal end of elongate member 314. Catheter 302 may also be fluidly attached to a vacuum source.

The motion control apparatus 340 may impart a motion to distal device 304 at between 1 Hz and 150 Hz. Of course, motion at higher or lower frequencies than this are envisioned. As an example, it may be advantageous to move distal device 304 at selective intervals lower than 1 Hz only when a lumen is clogged. In addition, it may be preferable to impart a motion at up to 20 kHz. The motion control apparatus 340 may have any advantageous range of motion. One example range of motion is 17 mm. This may be done by configuring the motion control apparatus 340 to move distal device 2

mm proximally and 15 mm distal from a starting position. Another example range of motion is 120 mm, with the motion control apparatus 340 configured to move distal device 304 20 mm proximally and 100 mm distally.